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RICIS TECHNICAL NOTE

# ***Bibliography for Computer Security, Integrity, and Safety***

(NASA-CR-188950) BIBLIOGRAPHY FOR COMPUTER  
SECURITY, INTEGRITY, AND SAFETY (Research  
Inst. for Advanced Computer Science) 62 p

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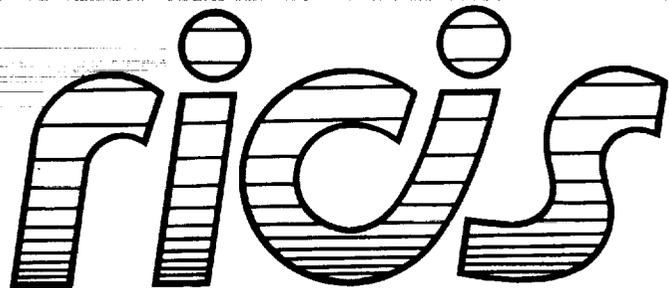
**Rodney L. Bown**

**University of Houston-Clear Lake**

**August 1991**

**Cooperative Agreement NCC 9-16  
Research Activity No. SE.26**

**NASA Johnson Space Center  
Engineering Directorate  
Flight Data Systems Division**



*Research Institute for Computing and Information Systems  
University of Houston - Clear Lake*

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**T · E · C · H · N · I · C · A · L      R · E · P · O · R · T**

# ***The RICIS Concept***

The University of Houston-Clear Lake established the Research Institute for Computing and Information systems in 1986 to encourage NASA Johnson Space Center and local industry to actively support research in the computing and information sciences. As part of this endeavor, UH-Clear Lake proposed a partnership with JSC to jointly define and manage an integrated program of research in advanced data processing technology needed for JSC's main missions, including administrative, engineering and science responsibilities. JSC agreed and entered into a three-year cooperative agreement with UH-Clear Lake beginning in May, 1986, to jointly plan and execute such research through RICIS. Additionally, under Cooperative Agreement NCC 9-16, computing and educational facilities are shared by the two institutions to conduct the research.

The mission of RICIS is to conduct, coordinate and disseminate research on computing and information systems among researchers, sponsors and users from UH-Clear Lake, NASA/JSC, and other research organizations. Within UH-Clear Lake, the mission is being implemented through interdisciplinary involvement of faculty and students from each of the four schools: Business, Education, Human Sciences and Humanities, and Natural and Applied Sciences.

Other research organizations are involved via the "gateway" concept. UH-Clear Lake establishes relationships with other universities and research organizations, having common research interests, to provide additional sources of expertise to conduct needed research.

A major role of RICIS is to find the best match of sponsors, researchers and research objectives to advance knowledge in the computing and information sciences. Working jointly with NASA/JSC, RICIS advises on research needs, recommends principals for conducting the research, provides technical and administrative support to coordinate the research, and integrates technical results into the cooperative goals of UH-Clear Lake and NASA/JSC.

RICIS TECHNICAL NOTE

***Bibliography for Computer  
Security, Integrity, and Safety***

1954-1955

## Preface

This research was conducted under auspices of the Research Institute for Computing and Information Systems by Dr. Rodney L. Bown, Associate Professor of Computer Systems Design at the University of Houston-Clear Lake. Dr. Bown also served as RICIS research coordinator.

Funding has been provided by the Engineering Directorate, NASA/JSC through Cooperative Agreement NCC 9-16 between NASA Johnson Space Center and the University of Houston-Clear Lake. The NASA technical monitor for this activity was William C. Young, of the Project Integration Office, Flight Data Systems Division, Engineering Directorate, NASA/JSC.

The views and conclusions contained in this report are those of the author and should not be interpreted as representative of the official policies, either express or implied, of NASA or the United States Government.

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**RICIS TECHNICAL NOTE**

**Bibliography for Computer  
Security, Integrity, and Safety**

**Principal Investigator  
Dr. Rodney L. Bown**

**in partial fulfillment of**

**RICIS Task SE. 26**

**August 1991**

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# Bibliography for Computer Security, Integrity, and Safety

## 1. Introduction

Several years ago this bibliography on computer security integrity and safety issues was started to provide support for the computer science program at the university. In the last two years, the bibliography has been updated and expanded in support of RICIS task SE. 26. The size and variety of the bibliography should provide the reader with a perspective on the volume of recent activities within the technical, business, and government communities. This bibliography is divided into the following sections:

- Recent National Publications
- Books
- Journal/Magazine Articles, and Miscellaneous Reports
- Conferences, Proceedings and Tutorials
- Government Documents and contractor Reports

The bibliography is followed by an unstructured list of citations on computer viruses, worms, trojan horses, and hackers.

All documents are available at the university or through interlibrary loans.

## 2. Recent National Publications

This section provides a list of recent publications that highlight issues with respect to computer security, integrity and safety.

- Proceedings from the 1990 Workshop on Issues of Integrity and Security in an Ada Environment. 3-5 April. Orlando, Florida. Sponsored by IIT Research Institute and Ada Joint Program Office. Published in Ada Letters November/December 1990 88-121.

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## 5. Conferences, Proceedings and Tutorials

The following is a list of proceedings and tutorials that are available at the UHCL or UH-UP libraries and/or at RICIS SERC. The conferences represent a mixture of orientation such as research, national forum, and systems.

### IEEE Computer Society:

The IEEE Symposium on Security and Privacy. Research oriented. Attendance limited to approximately 350+. Meets annually in Oakland, California during early May.

7-9 April 1986. Oakland, California.

27-29 April 1987. Oakland, California.

18-21 April 1988. Oakland, California.

1-3 May 1989. Oakland, California.

7-9 May 1990. Oakland, California.

The Computer Security Foundations Workshop II. Franconia, New Hampshire, June 11-14, 1989. This is an invited workshop attended by approximately 35 research professionals.

Tutorial: Abrams, Marshall D. and Harold J. Podell. Computer and Network Security. IEEE Computer Society Press, 1986. ISBN 0-8186-0756-4.

Tutorial: Agresti, William W. New Paradigms for Software Development. Washington: IEEE Computer Society Press. 1986.

Tutorial: Boehm, Barry W. Software Risk Management. Los Alamitos: IEEE Computer Society Press, 1989. ISBN 0-8186-8906-4

Newsletter of the IEEE Computer Society Technical Committee on Security and Privacy. Published approximately four times per year.

National Computer Security Center (NCSC) and National Institute of Standards and Technology (NIST, the new name for the National Bureau of Standards): National Computer Security Conference. National policies, management issues, technology (25%). Held annually during October in the Washington-Baltimore area.

7th DOD/NBS Computer Security Conference. September 1984.

Proceedings of the 10th National Computer Security Conference. September 1987.

Proceedings 12th National Computer Security Conference. 10-13 October 1989. Baltimore, Maryland.

Proceedings 13th National Computer Security Conference. 1-4 October 1990. Washington, D.C.

American Society for Industrial Security and Aerospace Computer Security Associates:

Annual Computer Security Applications Conference (formerly the Aerospace Computer Security Applications Conference and co-sponsored by the AIAA.) System issues. The 5th was held in Tucson, Arizona during December 1989. The 6th is scheduled for Tucson in December 1990. The 7th is scheduled for Florida in December 1991.

Tutorial: Gasser, Morrie. Secure System Design - An Introduction. Presented at the Fifth Annual Computer Applications Conference, December 4, 1989, Tucson, Arizona.

Tutorial: Gligor, Virgil. Secure System Design - Advanced. Presented at the Fifth Annual Computer Applications Conference, December 4, 1989, Tucson, Arizona.

Many other workshops, commercial conventions, etc. are on the national calendar. The International Federation of Information Processing (IFIP) hosts an annual international conference.

Proceedings Information Security and Integrity Systems. SEPEC Seminar Series. 15-16 May 1990. University of Houston-Clear Lake.

Advances in Cryptology-CRYPTO '87. Proceedings of the Advances in Cryptology Conference. 16-20 August 1987. Santa Barbara, California. Berlin Heidelberg: Springer-Verlag, Lecture Notes in Computer Science, 1988.

Computer Viruses, Proceedings of an Invitational Symposium. 10-11 October 1988. Hosted by Deloitte Haskins & Sells. Cosponsored with Information Systems Security Association. New York: 1989.

Ada in Industry, Proceedings of the Ada-Europe International Conference. 7-9 June 1988. Munich.

8th Annual National Conference on Ada Technology. 1990, Atlanta.

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